Dkt. 76786/JPW/YC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	:	Peter David East and Susan Elizabeth Brown
U.S. Serial No.	:	10/590,539
Filed	:	as §371 national stage of PCT International Application No. PCT/AU2005/000234
For	:	ANTIFUNGAL PEPTIDES

1185 Avenue of the Americas
New York, New York 10036
May 30, 2007

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In order to ensure compliance with applicants' duty of disclosure under 37 C.F.R. §1.56 and §1.97(a)-(d), applicants submit this Information Disclosure Statement to supplement the Information Disclosure Statement filed August 24, 2006. Applicants request that the documents listed on Form PTO-1449, attached hereto as **Exhibit A**, be considered and made of record in the above-identified application. These documents are the following:

1. Banzet, N., et al., (2002) "Expression Of Insect Cystein-Rich Antifungal Peptides In Transgenic Tobacco Enhances Resistance To A Fungal Disease," *Plant Science*, 162: 995-1006 **(Exhibit 1)**;

2. Boman, H.G., et al., (1989) "Chemical Synthesis And

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Enzymic Processing Of Precursor Forms Of Cecropins A And B," *The Journal Of Biological Chemistry*, 264(10): 5852-5860 **(Exhibit 2)**;

3. Chenna, R., et al., (2003) "Multiple Sequence Alignment With The Clustal Series Of Programs," *Nucleic Acids Research*, 31(13): 3497-3500 **(Exhibit 3)**;

4. De Lucca, A.J. and Walsh, T.J., (1999) "Antifungal Peptides: Novel Therapeutic Compounds Against Emerging Pathogens," *Antimicrobial Agents And Chemotherapy*, 43(1): 1-11 **(Exhibit 4)**;

5. De Lucca, A.J. and Walsh, T.J., (2000) "Antifungal Peptides: Origin, Activity, And Therapeutic Potential," *Revista Iberoamericana de Micologia*, 17(4): 116-120 **(Exhibit 5)**;

6. European Patent Application Publication No. EP 0 798 381 A3 published June 17, 1998 (NATIONAL INSTITUTE OF AGROBIOLOGICAL RESOURCES, MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES) **(Exhibit 6)**;

7. European Patent Application Publication No. EP 0 239 400 B1 published August 3, 1994 (MEDICAL RESEARCH COUNCIL) **(Exhibit 7)**;

8. Fehlbaum, P., et al., (1994) "Insect Immunity. Septic Injury Of Drosophila Induces The Synthesis Of A Potent Antifungal Peptide With Sequence Homology To Plant Antifungal Peptides," *The Journal of Biological Chemistry*, 269(52): 33159-33163 **(Exhibit 8)**;

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9. French Patent Application Publication No. FR 2 723 951 - A1, published March 1, 1996 (AGRICULTURE FORESTRY AND FISHERIES TECHNICAL INFORMATION SOCIETY) **(Exhibit 9)**;

10. French Patent Application Publication No. FR 2 733 237 - A1 published October 25, 1996 (RHONE POULENC AGROCHIMIE) **(Exhibit 10)**;

11. Furukawa, S., et al., (1999) "Inducible Gene Expression Of Moricin, A Unique Antibacterial Peptide From The Silkworm (*Bombyx mori*)," *The Biochemical Journal*, 340(Pt 1): 265-271 **(Exhibit 11)**;

12. Ghannoum, M. A. and Rice, L.B., (1999) "Antifungal Agents: Mode of Action, Mechanisms Of Resistance, And Correlation Of These Mechanisms With Bacterial Resistance," *Clinical Microbiology Reviews*, 12(4): 501-517 **(Exhibit 12)**;

13. Gleave, A.P., (1992) "A Versatile Binary Vector System With A T-DNA Organisational Structure Conducive To Efficient Integration Of Cloned DNA Into The Plant Genome," *Plant Molecular Biology*, 20: 1203-1207 **(Exhibit 13)**;

14. Hara, S. and Yamakawa, M., (1995) "Moricin, A Novel Type Of Antibacterial Peptide Isolated From The Silkworm, *Bombyx Mori*," *The Journal Of Biological Chemistry*, 270(50): 29923-29927 **(Exhibit 14)**;

15. Hara, S. and Yamakawa, M., (1996) "Production In

Escherichia coli Of Moricin, A Novel Type Antibacterial Peptide From The Silkworm, *Bombyx mori*," *Biochemical And Biophysical Research Communications*, 220: 664-669 **(Exhibit 15)**;

16. Harayama, S., (1998) "Artificial Evolution By DNA Shuffling," *Trends In Biotechnology*, 16(2): 76-82 **(Exhibit 16)**;

17. Hemmi, H., et al., (2002) "Solution Structure Of Moricin, An Antibacterial Peptide, Isolated From The Silkworm *Bombyx mori*," *Federation Of European Biochemical Societies Letters*, 518(1-3): 33-38 **(Exhibit 17)**;

18. International Patent Application Publication No. WO/1999/002717 published January 21, 1999 (RHONE-POULENC AGRO) **(Exhibit 18)**;

19. International Patent Application Publication No. 1999/053053 published October 21, 1999 (RHONE-POULENC AGRO) **(Exhibit 19)**;

20. International Patent Application Publication No. WO/2002/000706 A2 published January 3, 2002 (RHOBIO) **(Exhibit 20)**;

21. International Patent Application Publication No. WO/2002/000836 A2 published January 3, 2002 (CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE and ENTOMED) **(Exhibit 21)**;

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22. International Patent Application Publication No. WO 2004/016650 A1 published February 26, 2004 (ENTOMED) **(Exhibit 22)**;

23. Japanese Patent Application Publication No. 7-250685 published October 3, 1995 (NORINSUISANSHO NOGYO SEIBUTSU) **(Exhibit 23)**;

24. Japanese Patent Application Publication No. 11-215983 published August 10, 1999 (AGRICULTURE, FORESTRY AND FISHERIES TECHNICAL INFORMATION ASSOCIATION INC.) **(Exhibit 24)**;

25. Japanese Patent Application Publication No. 11-255799 published September 21, 1999 (IWATE PREFECTURE) **(Exhibit 25)**;

26. Japanese Patent Application Publication No. 2004-266900, published September 24, 2004 (HOKURIKU ELECTRIC POWER) **(Exhibit 26)**;

27. Lamberty, M., et al., (1999) "Insect Immunity. Isolation From The Lepidopteran *Heliothis Virescens* Of A Novel Insect Defensin With Potent Antifungal Activity," *The Journal Of Biological Chemistry*, 274(14): 9320-9326 **(Exhibit 27)**;

28. Mak, P., et al., (2001) "Antibacterial Peptides Of The Moth *Galleria mellonella*," *Acta Biochimica Polonica*, 48(4): 1191-1195 **(Exhibit 28)**;

29. McGuffin, L.J., et al., (2000) "The PSIPRED Protein

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Structure Prediction Server," *Bioinformatics*, 16(4): 404-405 **(Exhibit 29)**;

30. Otvos, L., Jr., (2000) "Antibacterial Peptides Isolated From Insects," *Journal Of Peptide Science*, 6: 497-511 **(Exhibit 30)**;

31. Schuhmann, B., et al., (2003) "Cloning And Expression Of Gallerimycin, An Antifungal Peptide Expressed In Immune Response Of Greater Wax Moth Larvae, *Galleria mellonella*," *Archives Of Insect Biochemistry And Physiology*, 53: 125-133 **(Exhibit 31)**;

32. U.S. Patent Application Publication No. 2002/0015738 A1 published February 7, 2002 (Soo In Kim, et al.)

33. U.S. Patent No. 5,627,153 issued May 6, 1997 to Roger G. Little, et al.;

34. U.S. Patent No. 5,641,627 issued June 24, 1997 to Charles M. Moehle;

35. U.S. Patent No. 5,646,014 issued July 8, 1997 to Noda-Shi Seiichi Hara;

36. U.S. Patent No. 5,939,288 issued August 17, 1999 to Robert Thornburg;

37. U.S. Patent No. 6,331,522 issued December 18, 2001 to Philippe Bulet, et al.;

38. U.S. Patent No. 6,337,093 issued January 8, 2002 to Soo

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In Kim, et al.;

39. U.S. Patent No. 6,531,573 issued March 11, 2003 to Frank G. Oppenheim;

40. U.S. Patent No. 6,605,698 issued August 12, 2003 to Aart Van Amerongen, et al.;

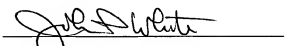
41. Vizioli, J. and Salzet, J., (2002) "Antimicrobial Peptides From Animals: Focus On Invertebrates," *Trends In Pharmacological Sciences*, 23(11): 494-496 **(Exhibit 32)**;

Copies of documents numbers 1-31 and 41 are attached hereto as **Exhibits 1-31** and **32**, respectively. In accordance with 37 C.F.R. §1.92(a)(2)(ii), copies of U.S. Patents and U.S. Patent Application Publications need not be provided. Accordingly, a copy of documents listed above as items 32-40 are not submitted herewith.

In addition, each of **Exhibits 9-10, 23,** and **25-26** include an English translation of the abstracts of documents numbers 9-10, 23, and 25-26, respectively.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

Respectfully submitted,



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I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:
Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

May 30, 2007
Date

John P. White
Reg. No. 28,678

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 5

	Complete if Known
Application Number	10/590,539
Filing Date	Not Yet Known
First Named Inventor	Peter David East
Art Unit	
Examiner Name	
Attorney Docket Number	76786/JPW/YC

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	1	Banzet, N., et al., (2002) "Expression Of Insect Cystein-Rich Antifungal Peptides In Transgenic Tobacco Enhances Resistance To A Fungal Disease," Plant Science, 162: 995-1006	
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	4	De Lucca, A.J. and Walsh, T.J., (1999) "Antifungal Peptides: Novel Therapeutic Compounds Against Emerging Pathogens," Antimicrobial Agents And Chemotherapy, 43(1): 1-11	
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	12	Ghannoum, M. A. and Rice, L.B., (1999) "Antifungal Agents: Mode of Action, Mechanisms Of Resistance, And Correlation Of These Mechanisms With Bacterial Resistance," *Clinical Microbiology Reviews*, 12(4): 501-517	
	13	Gleave, A.P., (1992) "A Versatile Binary Vector System With A T-DNA Organisational Structure Conducive To Efficient Integration Of Cloned DNA Into The Plant Genome," *Plant Molecular Biology*, 20: 1203-1207	
	14	Hara, S. and Yamakawa, M., (1995) "Moricin, A Novel Type Of Antibacterial Peptide Isolated From The Silkworm, *Bombyx Mori*," *The Journal Of Biological Chemistry*, 270(50): 29923-29927	

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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	Complete if Known
Application Number	10/590,539
Filing Date	Not Yet Known
First Named Inventor	Peter David East
Art Unit	
Examiner Name	
Attorney Docket Number	76786/JPW/YC

Sheet 2 of 5

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	15	Hara, S. and Yamakawa, M., (1996) "Production In *Escherichia coli* Of Moricin, A Novel Type Antibacterial Peptide From The Silkworm, *Bombyx mori*," *Biochemical And Biophysical Research Communications*, 220: 664-669	
	16	Harayama, S., (1998) "Artificial Evolution By DNA Shuffling," Trends In Biotechnology, 16(2): 76-82	
	17	Hemmi, H., et al., (2002) "Solution Structure Of Moricin, An Antibacterial Peptide, Isolated From The Silkworm *Bombyx mori*," *Federation Of European Biochemical Societies Letters*, 518(1-3): 33-38	
	27	Lamberty, M., et al., (1999) "Insect Immunity. Isolation From The Lepidopteran *Heliothis Virescens* Of A Novel Insect Defensin With Potent Antifungal Activity," *The Journal Of Biological Chemistry*, 274(14): 9320-9326	
	28	Mak, P., et al., (2001) "Antibacterial Peptides Of The Moth Galleria mellonella," Acta Biochimica Polonica, 48(4): 1191-1195	
	29	McGuffin, L.J., et al., (2000) "The PSIPRED Protein Structure Prediction Server," Bioinformatics, 16(4): 404-405	
	30	Otvos, L., Jr., (2000) "Antibacterial Peptides Isolated From Insects," Journal Of Peptide Science, 6: 497-511	
	31	Schuhmann, B., et al., (2003) "Cloning And Expression Of Gallerimycin, An Antifungal Peptide Expressed In Immune Response Of Greater Wax Moth Larvae, *Galleria mellonella*," *Archives Of Insect Biochemistry And Physiology*, 53: 125-133	
	41	Vizioli, J. and Salzet, J., (2002) "Antimicrobial Peptides From Animals: Focus On Invertebrates," Trends In Pharmacological Sciences, 23(11): 494-496	

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Sheet 3 of 5

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Application Number	10/590,539
Filing Date	Not Yet Known
First Named Inventor	Peter David East
Art Unit	
Examiner Name	
Attorney Docket Number	76786/JPW/YC

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	32	US- 2002/0015738 A1	02-07-2002	Soo In Kim, et al.	
	33	US- 5,627,153	05-06-1997	Roger G. Little, et al.	
	34	US- 5,641,627	06-24-1997	Charles M. Moehle	
	35	US- 5,646,014	07-08-1997	Noda-Shi Seiichi Hara	
	36	US- 5,939,288	08-17-1999	Robert Thornburg	
	37	US- 6,331,522	12-18-2001	Philippe Bulet, et al.	
	38	US- 6,337,093	01-08-2002	Soo In Kim, et al.	
	39	US- 6,531,573	03-11-2003	Frank G. Oppenheim	
	40	US- 6,605,698	08-12-2003	Aart Van Amerongen, et al.	
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	6	EP 0 798 381 A3	07-17-1998	NATIONAL INSTITUTE OF AGROBIOLOGICAL RESOURCES; MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES		
	7	EP 0 239 400 B1	08-03-1994	MEDICAL RESEARCH COUNCIL		
abstract	8	FR 2 723 951 A1	03-01-1996	AGRICULTURE FORESTRY AND FISHERIES TECHNICAL INFORMATION SOCIETY		✓
abstract	10	FR 2 733 237 A1	10-25-1996	RHONE POULENC AGROCHIMIE		✓
abstract	18	WO 1999/002717	01-21-1999	RHONE-POULENC AGRO		
	19	WO 1999/053053	10-21-1999	RHONE-POULENC AGRO		

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Application Number	10/590,539
Filing Date	Not Yet Known
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abstract	22	WO 2004/016650 A1	02-26-2004	ENTOMED		
abstract	23	JP 7-250685	10-03-1995	NORINSUISANSHO NOGYO SEIBUTSU		✓
	24	JP 11-215983	08-10-1999	AGRICULTURE, FORESTRY AND FISHERIES TECHNICAL INFORMATION ASSOCIATION INC.		
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	26	JP 2004-266900	09-24-2004	HOKURIKU ELECTRIC POWER\		✓

Examiner Signature	/Brian Gangle/	Date Considered	10/01/2008

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